

Cooling system

TMV3010WL



Fachbetrieb für Kälteanlagen und Flüssigkühlung

Cooling principle Water - Air

In the TMV3010WL, the cooling fluid circulates in the primary circuit between the cooling system and the heat source to be cooled. The returned heated cooling fluid is cooled by an air-cooled heat exchanger and exits the outlet flow again.

Drinking water or a mixture of drinking water and antifreeze protection (f.e. G48® Glysantin®) can be used as cooling medium.

The cooling system has an adjustable flow switch as well as a temperature control with digital display and two switching contacts. The control circuits are already connected onto connecting terminals.

The built-in axial fan has an input for variable speed control and can be adapted by thermove to the cooling capacity requirements of the customer. The factory settings set a fixed speed based on the optimum between cooling capacity and noise level. Optionally, a temperature controller automatically adapts the speed control and thus ensures a reduction in the sound pressure level and the energy requirement (optional extra).

Optional extras:

e.g. customer specific electrical interfaces, IEC appliance inlet C 14 (switched), process sensors

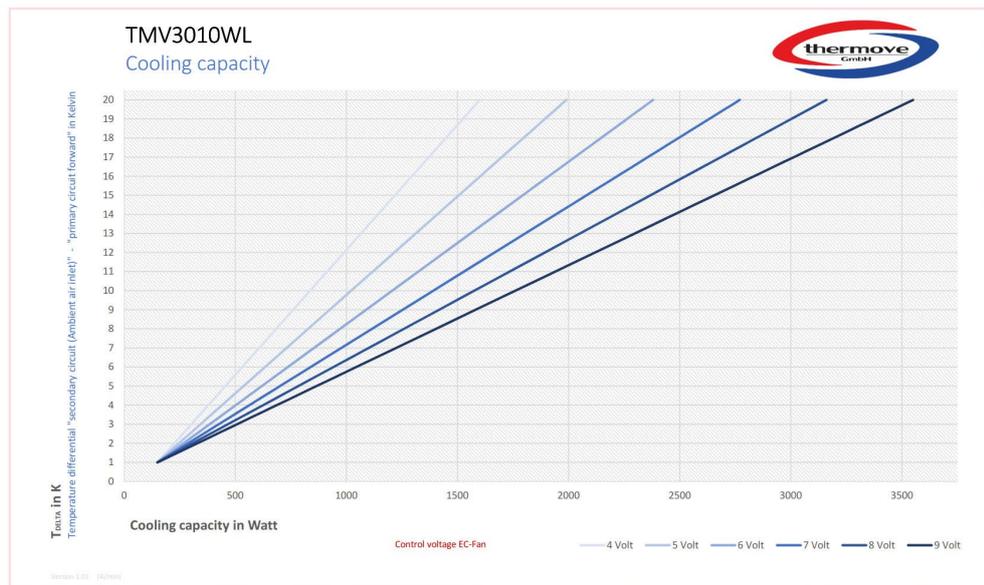
- ◆ Compact design
- ◆ Variable cooling capacity in a smallest possible constructed size
- ◆ Digital temperature controller, RS485
- ◆ Monitoring of temperature und flow
- ◆ Customized versions possible

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Performance diagram



Product picture



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Technical data

Dimensions, weight and color

Length (depth):	395 mm
Width (front):	420 mm
Height (front):	385 mm
Weight (empty):	32,00 kg
Weight (filled):	35,00 kg
Colour:	RAL 7035 (light grey)

Coolant circuit

Coolant:	drinking water or drinking water-glycol mixture (drinking water / glycol max. 75% / 25%)
Media temperature:	+5°C to 55°C
Capacity (min / max):	2,20 litres / 2,8 litres
Hydraulic connections - Primary circuit (coolant)	G3/8", female thread
Coolant hose:	Inner diameter ≥ 10 mm total length (VL+RL) < 30 meters

Performance data

Cooling capacity:	1.000 - 3.000 watts
Volume flow: (primary circuit)	> 4,5 l/min at 3,5 bar
Mains voltage:	230 V AC ± 5%, 50Hz / 60Hz
Power consumption:	2,65 A / 2,55 A
Operating noise:	48 - 68 dB(A) measured at 1 m distance
Protection:	IP21

Environmental conditions

Operation above sea level:	Up to 4000 m above sea level
Operating temperature:	+5°C to +40°C ambient temperature
Storage temperature:	-10°C to +70°C
Rel. humidity:	20% to 90% (non-condensing)
Installation conditions:	Indoor installation, horizontal floor

Factory settings (changeable by customer)

Maximum pressure:	6,0 (+0,0/-0,2) bar
Flow switch contact OPEN:	≤ 3,50 l/min
Flow switch contact CLOSED:	≥ 4,3 l/min
Temperature controller contact OPEN:	< 5°C and > 55°C
Temperature controller contact CLOSED:	> 7°C and < 53°C

Contact rating

Flow switch:	max. 230V/AC, 3A, 60VA
Temperature controller (standard)	max. 230V/AC, 8A, resistive load

All dimensions are approximate and may differ slightly in series production.